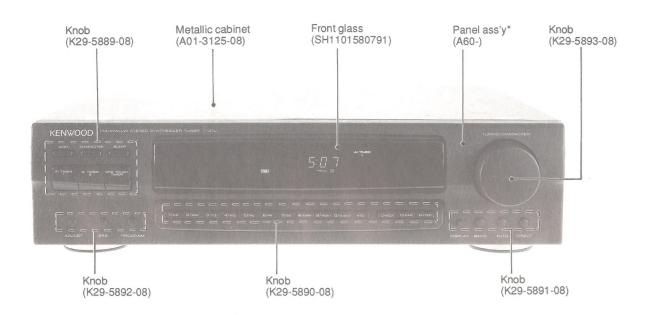
FM/MW/LW STEREO SYNTHESIZER TUNER

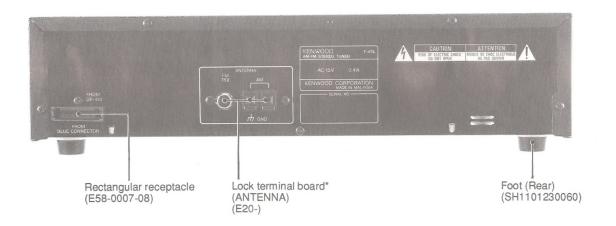
T-47/L SERVICE MANUAL

(M-47)

KENWOOD

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T-47 and T-47L don't have a power supply transformer. Use A-47 or RM-90PS power supply to supply power, if neither is available, adjust to operate as instructed on page 9.

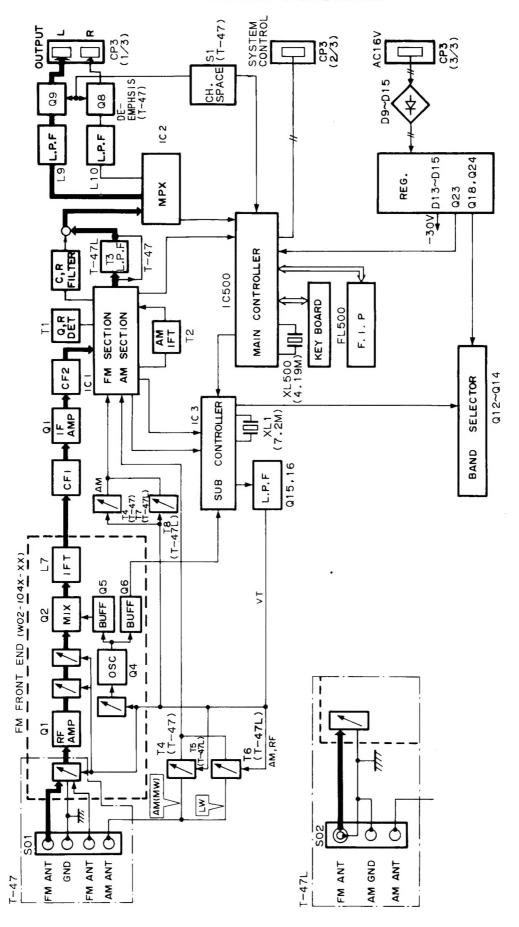
When turning the power on, short the connector pin of CN201 (X05-B/2).

T-47/L

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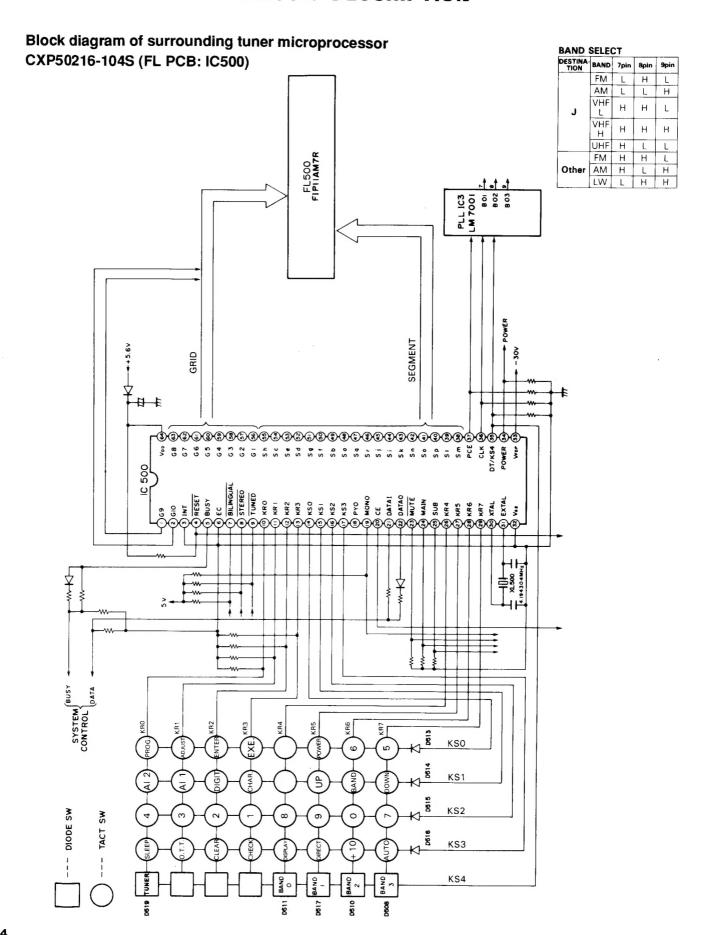
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BLOCK DIAGRAM



T-47/L

CIRCUIT DESCRIPTION



CIRCUIT DESCRIPTION

Pin functions

| Pin No. | Pin name | I/O | Name | Оре | eration description |
|---------|---------------|-----|---------|-----------------------------------|--|
| 1, 2 | T1, T0 | 0 | G9, G10 | FL grid output | 9G, 10G |
| 3 | INT | 1 | | No use | (GND) |
| 4 | RST | ı | RESET | Reset input | H: NORMAL L: RESET |
| 5 | ADI/PB3 | 1/0 | BUSY | System control BUSY input/output | t . |
| 6 | EC | ı | | No use | (GND) |
| 7 | SC/PX0 | 1 | BIL | BILINGUAL | H: NORMAL L: BILINGUAL |
| 8 | SO/PX1 | 1 | STEREO | Stereo signal input | H: MONO L: STEREO |
| 9 | SI/PX2 | 1 | TUNED | Tuning signal input | H: NO L: TUNED |
| 10~13 | PFO~PF3 | ı | KRO~KR3 | Key return input | H: ON L: OFF |
| 14~17 | PEO~PE3 | 0 | KS0~KS3 | Key scan output | H: ON L: OFF |
| 18 | PYO | 0 | | No use | (OPEN) |
| 19 | PWM/PY1 | 0 | MONO | Forced MONO output | H: MONO L: STEREO |
| 20 | WP/PY2 | - 1 | CE | AC OFF detection input | H: AC ON L: AC OFF |
| 21 | RMC/PY3 | 1 | DATAI | System control DATA input | |
| 22 | PD0 | 0 | DATAO | System control DATA output | |
| 23 | PD1 | 0 | MUTE | Line mute | H: MUTE OFF L: MUTE ON |
| 24 | PD2 | 0 | MAIN | No use | |
| 25 | PD3 | 0 | SUB | No use | |
| 26~29 | PC0~PC3 | ı | KR4~KR7 | Key return input | H: ON L: OFF |
| 30 | XTAL | | | Quartz oscillator 4.194304MHz | |
| 31 | EXTAL | | | Quartz oscillator 4.194304MHz | |
| 32 | Vss | | | GND pin - | |
| 33 | VFDP | | | -30 V | |
| 34 | PHO/SO | 0 | POWER | POWER ON/OFF control | H: ON L: OFF |
| 35 | PH1/S1 | 0 | DT/KS4 | PLL DATA output | Key scan output for destination SW |
| 36 | PH2/S2 | 0 | CLK | PLL CLOCK output | |
| 37 | PH3/S3 | 0 | PCE | PLL CE output | |
| 38~55 | PG0/S4~S23/T8 | 0 | Sm~Sh | FL segment output (m, I, p, o, n, | k, i, j, r, q, a, b, f, g, d, e, c, h) |
| 56~63 | S22/T9~T2 | 0 | G1~G8 | FL grid output | 1G~8G |
| 64 | Voo | | | +5 V (Power supply) | |

T-47/L

CIRCUIT DESCRIPTION

Test mode

(1) Method of setting

While pressing the DOWN key, turn AC ON.

(2) Contents

Power ON

FLL all lit

Test frequency setting (Table 1)

(3) Method of canceling

Clearing the FL all lit state is performed by numeral key,

BAND key, UP/DOWN key or POWER key.

Initial status setting (reset)

(1) Method

While pressing the ENTER key, turn AC ON.

(2) Contents

The all memory is cleared and the initial status is fully restored. At this time, however, test frequency is newly memorized in the preset memory. (Table 1)

| Destination Preset | | - | Г-47 | | | T-47L |
|-----------------------|----|----------|-----------|-----------------------|----|-----------|
| channel | | J TYPE | М | , X TYPE | Т | , E TYPE |
| 01ch | FM | 83.5 MHz | FM | 98.0 MHz | FM | 98.0 MHz |
| 02ch | FM | 90.0 MHz | FM | 108.0 MHz | FM | 108.0 MHz |
| 03ch | AM | 630 kHz | AM | 630 kHz | AM | 630 kHz |
| 04ch | AM | 990 kHz | AM | 990 kHz | AM | 990 kHz |
| 05ch | AM | 1440 kHz | AM | 1440 kHz | AM | 1440 kHz |
| 06ch | AM | 1602 kHz | AM (AM | 1602 kHz 1610 kHz) | AM | 1602 kHz |
| 07ch | TV | 3 ch | FM | 87.5 MHz | LW | 162 kHz |
| 08ch | TV | 8 ch | FM | 87.5 MHz | LW | 216 kHz |
| 09ch | TV | 35 ch | FM | 87.5 MHz | LW | 270 kHz |
| 10ch | FM | 89.1 MHz | FM | 89.1 MHz | FM | 89.1 MHz |
| 11ch | TV | 1 ch | FM | 87.5 MHz | LW | 281 kHz |
| 12ch | TV | 3 ch | FM | 87.5 MHz | FM | 87.5 MHz |
| 13ch | TV | 4 ch | FM | 87.5 MHz | FM | 87.5 MHz |
| 14ch | TV | 8 ch | FM | 87.5 MHz | FM | 87.5 MHz |
| 15ch | TV | 12 ch | FM | 87.5 MHz | FM | 87.5 MHz |
| 16ch | TV | 13 ch | FM | 87.5 MHz | FM | 87.5 MHz |
| 17ch | TV | 35 ch | FM | 87.5 MHz | FM | 87.5 MHz |
| 18ch | TV | 62 ch | FM | 87.5 MHz | FM | 87.5 MHz |
| 19ch | FM | 76.0 MHz | FM | 87.5 MHz | FM | 87.5 MHz |
| 20ch ~ 30ch | FM | 76.0 MHz | FM | 87.5 MHz | FM | 87.5 MHz |

(Table 1)

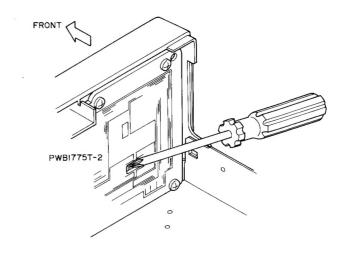
Conditions by destination

| | Desti- | 1 | Destination | switche | es | | | Inter channel | 1 | 811.6 |
|-------|----------------|----------------|----------------|---------|----|-------------------------------------|---------------------------|---------------------|------------------------|-------------------------|
| | nation type | В3 | B2 | В1 | ВО | Band | Receiving frequency range | Inter-channel space | Intermediate frequency | PLL reference frequency |
| | | | | | | FM | 76.0~90.0 MHz | 100 kHz | - 10.75 MHz | 25 kHz |
| | J | 0 | 0 | 0 | 0 | AM | 531 ~ 1602 kHz | 9 kHz | + 450 kHz | 9 kHz |
| | | | | | | TV | 1 ~ 62ch | 6 MHz | - 10.75 MHz | 25 kHz |
| _ | M | 1 | 1 or 0 | 1 | 0 | FM | 87.5 ~ 108.0 MHz | 100 kHz or50 kHz | + 10.7 MHz | 50 kHz |
| T-47 | | ' | 1 or 0 1 0 | | АМ | 531 ~ 1602 kHz or 530 ~ 1610 kHz | 9 kHz or 10 kHz | + 450 kHz | 10 kHz | |
| | K.P | 1 | 0 | 0 | 0 | FM | 87.5~108.0 MHz | 100 kHz | + 10.7 MHz | 50 kHz |
| | | | | | | AM | 530 ~ 1700 kHz | 10 kHz | + 450 kHz | 10 kHz |
| | x | 1 | 1 | 0 | 0 | FM | 87.5~108.0 MHz | 50 kHz | + 10.7 MHz | 50 kHz |
| L | | | | 0 | 0 | AM | 531 ~ 1602 kHz | 9 kHz | + 450 kHz | 9 kHz |
| _ | | | | | | FM | 87.5~108.0 MHz | 50 kHz | + 10.7 MHz | 50 kHz |
| T-47L | T,E | E 1 1 0 | | 1 | MW | 531 ~ 1602 kHz | · 9 kHz | + 450 kHz | 9 kHz | |
| | | | | | | LW | 153~281 kHz | 1 kHz | + 450 kHz | 1 kHz |

ADJUSTMENT/REGLAGE/ABGLEICH

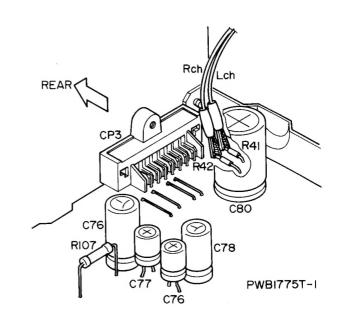
English

- (1) To connect T-47 and the power supply (RM-90PS) or A-47, please use the 15-pin connector cord(Part No. E30-2668-05).
- (2) When operating T-47 only, apply AC 16 V to the jumper wire between pin 14 and pin 15 of the 15-pin connector (BLUE).
 - When turning the power on, short the jumper wire of the POWER ON POINT (nearby the "ADJUST" key of FL PCB).
- (3) Connect the output to CP3 1P(L), 3P(R) or resistors R41(L), R42(R).



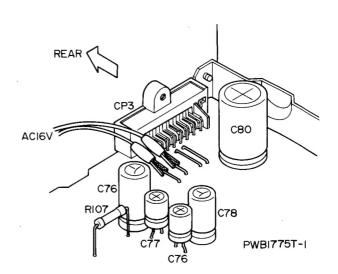
French

- Pour raccorder le T-47 et la source d'alimentation (RM-90PS) ou A-47, utiliser le connecteur à 15 broches (Pièce No. E30-2668-05).
- (2) Lors de l'utilisation du T-47 uniquement, appliquer un courant CA 16 V au cavalier entre la broche 14 et 15 du connecteur à 15 broches (BLEU).
 - A la mise sous tension, court-circuiter le cavalier du POINT DE MISE SOUS TENSION (près de la touche "ADJUST" de FL PCB).
- (3) Quand la sortie est CP3 1P(L), 3P(R) ou connecter au rhéostat R41(L), R42(R).



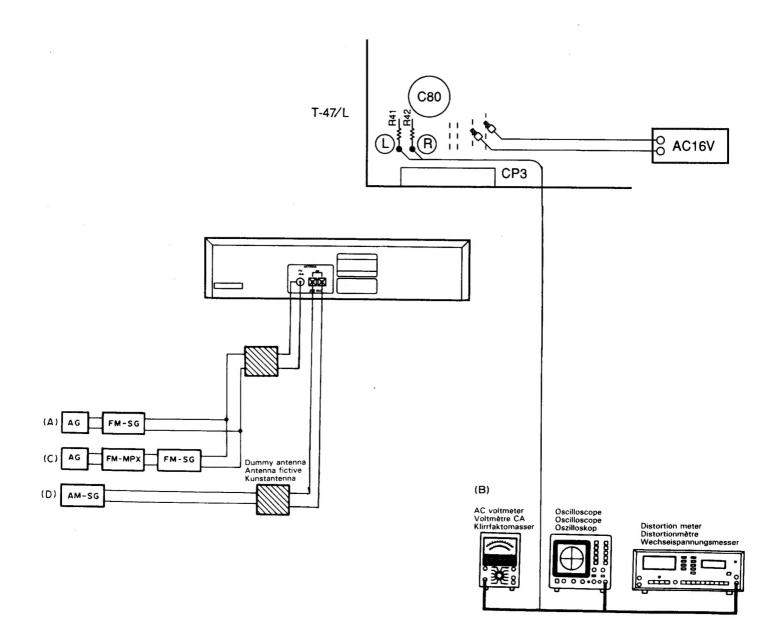
Germany

- (1) Zum Anschließen des T-47 und der Btriebsstromversorgung (RM-90PS) oder A-47 bitte den 15poligen Stecker (Teil Nr. E30-2668-05) verwenden.
- (2) Wenn nur T-47 betrieben wird, 16 V Wechselstrom an den Jumperdrant zwischen Pin 14 und Pin 15 des 15poligen Steckers (BLAU) anlegen.
 - Beim Einschalten den Jumperdraht des EINSCHALTPUNKTS (in der Nähe der "ADJUST" Taste der FL-Leiterplatte) kurzschließen.
- (3) Wenn der Ausgang CP3 1P(L), 3P(R) an den Widerstand (R41 (L), R42 (R)) anschließen.



T-47/L

ADJUSTMENT/REGLAGE/ABGLEICH



T-47/L T-47/L

ADJUSTMENT

| No. | ITEM | INPUT SETTINGS | OUTPUT SETTINGS | TUNER SETTINGS | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|------|------------------------|---|--|-------------------|----------------------|---|------|
| FM S | ECTION Unles | ss otherwise specified BAND: FM MODE: | d, the Individual sw FM MODE/AUTO | ritches should l | oe set as following |): | |
| 1 | DISCRIMINATOR | (A) 98.0MHz 1kHz, ±75kHz dev 60dΒμ(ANT input) | Connect a DC voltmeter between terminal of TP1 | MONO 98.0MHz | T1 | 0±30mV | (b) |
| 2 | TUNING LEVEL | (A) 98.0MHz 0 dev 24dBμ(ANT input) | _ | 98.0MHz | VR2 | Adjust VR2 so that FL500(TUNED) goes off. Then, adjust VR1 and stop at the point where FL500 (TUNED) goes on. | |
| 3 | FM BAND WIDTH | (A) 98.025MHz 97.975MHz 0 dev 60dBµ(ANT input) | _ | 98 MHz | VR1 | FMSG 98.025MHz±3kHz FMSG 97.975MHz±3kHz where FL500 (TUNED) goes on. | |
| 4 | DISTORTION (STEREO) | (C) 98.0MHz 1kHz, ±68.25kHz dev Selector: L or R 60dBµ(ANT input) | (B) | 98.0MHz | L7 (Front end) | Minimum distortion. (L or R) | |
| 5 | SEPARATION | (C) 98.0MHz 1kHz, ±68.25kHz dev Selector: L or R 60dBµ(ANT input) | (B) | 98.0MHz | VR3 | Minimum crosstalk. | |
| AM : | SECTION Keep | the AM loop antnna | installed. BAND | : AM(T-47) | | | |
| (1) | RF ALIGNMENT (1) | (D) 630kHz 400Hz, 30% mod | (B) | 630kHz | YEL COIL of T4 L3 | Maximum amplitude and symmetry of the oscilloscope display. | |
| (2) | RF ALIGNMENT (2) | (D) 1440kHz 400Hz, 30% mod | (B) | 1440kHz | | Maximum amplitude and symmetry of the oscilloscope display. | |
| (3) | IF | (D) 990kHz 4kHz, 30% mod | (B) | 990kHz | T2 | Adjust the 4kHz audio output to the DIP point. | |

ADJUSTMENT

| No. | ITEM | INPUT SETTINGS | OUTPUT SETTINGS | TUNER SETTINGS | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|------|------------------|----------------------------------|--|-------------------|---------------------|---|------|
| AM-N | W SECTION | Keep the AM loc | p antenna installed | . BAND:MW | (T-47L) | | |
| (1) | BAND EDGE (1) | _ | Connect a DC voltmeter between R65 marking and GND. | 531 kHz | Т8 | 1.1V±0.1V | (a) |
| (2) | BAND EDGE (2) | _ | Connect a DC voltmeter between R65 marking and GND. | 1602 kHz | _ | Confirm 7.4V ^{+1.0} _{-0.6} V | (a) |
| | | Repeat aligneme | nts (1) and (2) severa | al times. | | | |
| (3) | RF ALIGNMENT (1) | (D) 630kHz 400Hz, 30% mod | (B) | 630kHz | T6 | Maximum amplitude and symmetry of the oscilloscope display. | |
| (4) | RF ALIGNMENT (2) | (D) 1440kHz 400Hz, 30% mod | (B) | 1440kHz | TO2 | Maximum amplitude and symmetry of the oscilloscope display. | |
| (5) | IF | (D) 990kHz 4kHz, 30% mod | (B) | 990kHz | T2 | Adjust the 4kHz audio output to the DIP point. | |
| | | Repeat aligneme | nts (3) and (4) severa | al times. | | | |
| AM-I | LW SECTION | Keep the AM loc | op antenna installed | . BAND:LW (| T-47L) | | |
| (6) | BAND EDGE (1) | | Connect a DC voltmeter between R65 marking and GND. | 153 kHz | Т7 | 1.5V±0.1V | (a) |
| (7) | BAND EDGE (2) | _ | _ | 281 kHz | _ | Confirm 5.5V±0.5V | (a) |
| | | Repeat aligneme | nts (6) and (7) severa | al times. | | | |
| (8) | RF ALIGNMENT (1) | (D) 162kHz 400Hz, 30% mod | (B) | 162kHz | T5 | Maximum amplitude and symmetry of the oscilloscope display. | |
| (9) | RF ALIGNMENT (2) | (D) 270kHz 400Hz, 30% mod | (B) | 270kHz | TO1 | Maximum amplitude and symmetry of the oscilloscope display. | |
| | | Repeat aligneme | ents (8) and (9) sever | al times. | | | |
| | | | | | | | |

T-47/L T-47/L

REGLAGE

| N° | ITEM | REGLAGE DE L'ENTREE | REGLAGE DE LA SORTIE | REGLAGE DU TUNER | POINT DE L'ALIGNEMENT | ALIGNER POUR | FIG. |
|-----|------------------------|---|---|---------------------|----------------------------|--|------|
| SEC | | oins, de spécification DE: FM MODE | contraire, régler les | s commutateurs | respectifs com | me suit: | |
| 1 | DETECTEUR | (A) 98,0MHz 1kHz, ±75kHz dév 60dΒμ(Entrée ANT) | Relier un voltmètre CC entre les broches où TP1 | MONO 98,0MHz | Т1 | 0±30mV | (b) |
| 2 | NIVEAU D'ACCORDER | (A) 98,0MHz 0 dév 24dBμ(Entrée ANT) | - | 98,0MHz | VR2 | Régler VR2 pour que FL500 (TUNED) disparaisse. Ensuite, régler VR1 et s'arrêter au point où FL500 (TUNED) apparaît. | |
| 3 | LARGEUR DE BANDE MF | (A) 98,025MHz 97,975MHz 0 dév 60dΒμ(Entrée ANT) | _ | 98 MHz | VR1 | FMSG 98,025MHz±3kHz FMSG 97,975MHz±3kHz au moment où le FL500 (TUNED) s'allume. | |
| 4 | DISTORSION (STEREO) | (C) 98,0MHz 1kHz, ±68,25kHz dév Selecteur: L ou R 60dΒμ(Entrée ANT) | (B) | 98,0MHz | L7 (Front end) | Distorsion minimale. (L ou R) | |
| 5 | SEPARATION | (C) 98,0MHz 1kHz, ±68,25kHz dév Selecteur: L ou R 60dΒμ(Entrée ANT) | (B) | 98,0MHz | VR3 | Diaphone minimale. | |
| SEC | TION MA Laiss | ser l'antenne bouche | MA installée. | BANDE: AM | (T-47) | | |
| (1) | ALIGNEMENT RF (1) | (D) 630kHz 400Hz, 30% mod | (B) | 630kHz | Bobine YEL de T4. L3 | Amplitude et symétrie maximum de l'affichage de l'oscilloscope. | |
| (2) | ALIGNEMENT RF | (D) 1440kHz 400Hz, 30% mod | (B) | 1440kHz | _ | Amplitude et symétrie maximum de l'affichage de l'oscilloscope. | |
| (3) | lF | (D) 990kHz 4kHz, 30% mod | (B) | 990kHz | T2 | Régler la sortie audio 4 kHz au point DIP. | |

REGLAGE

| N° | ITEM | REGLAGE DE | REGLAGE DE LA | REGLAGE DU | POINT DE | ALIGNED DOUB | |
|-----|------------------------|----------------------------------|---|---------------------|-----------------|---|------|
| | | L'ENTREE | SORTIE | TUNER | L'ALIGNEMENT | ALIGNER POUR | FIG. |
| SEC | TION MA-MW | Laisser l'antenn | e bouche MA instal | lée. B | ANDE:MW (T-47L |) | |
| (1) | LIMITE DE BANDE (1) | _ | Relier un voltmètre CC entre les R65 marque et GND. | 531 kHz | Т8 | 1,1V±0,1V | (a) |
| (2) | LIMITE DE BANDE (2) | | Relier un voltmètre CC entre les R65 marque et GND. | 1602 kHz | _ | Confirmer 7,4V ^{+1,0} _{-0,6} V | (a) |
| | , | Reprendre deux d | ou trois fois les opéra | tions (1) et (2) p | récédentes. | | |
| (3) | ALIGNEMENT RF (1) | (D) 630kHz 400Hz, 30% mod | (B) | 630kHz | T6 | Amplitude et symétrie maximum de l'affichage de l'oscilloscope. | |
| (4) | ALIGNEMENT RF (2) | (D) 1440kHz 400Hz, 30% mod | (B) | 1440kHz | TO2 | Amplitude et symétrie maximum de l'affichage de l'oscilloscope. | |
| (5) | IF | (D) 990kHz 4kHz, 30% mod | (B) | 990kHz | Т2 | Régler la sortie audio 4 kHz au point DIP. | |
| | | Reprendre deux o | ou trois fois les opéra | tions (3) et (4) p | récédentes. | *************************************** | |
| SEC | TION MA-LW | Laisser l'antenne | e bouche MA instal | lée. B | ANDE:LW (T-47L) | | **** |
| (6) | LIMITE DE BANDE (1) | _ | Relier un voltmètre CC entre les R65 marque et GND. | 153 kHz | Т7 | 1,5V±0,1V | (a) |
| (7) | LIMITE DE BANDE (2) | _ | _ | 281 kHz | _ | Confirmer 5,5V±0,5V | (a) |
| | | Reprendre deux o | ou trois fois les opéra | tions (6) et (7) p | récédentes. | | |
| (8) | ALIGNEMENT RF (1) | (D) 162kHz 400Hz, 30% mod | (B) | 162kHz | Т5 | Amplitude et symétrie maximum de l'affichage de l'oscilloscope. | |
| (9) | ALIGNEMENT RF (2) | (D) 270kHz 400Hz, 30% mod | (B) | 270kHz | TO1 | Amplitude et symétrie maximum de l'affichage de l'oscilloscope. | |
| | | Reprendre deux o | u trois fois les opéra | tions (8) et (9) pr | récédentes. | | |
| | | | | | | | |

T-47/L T-47/L

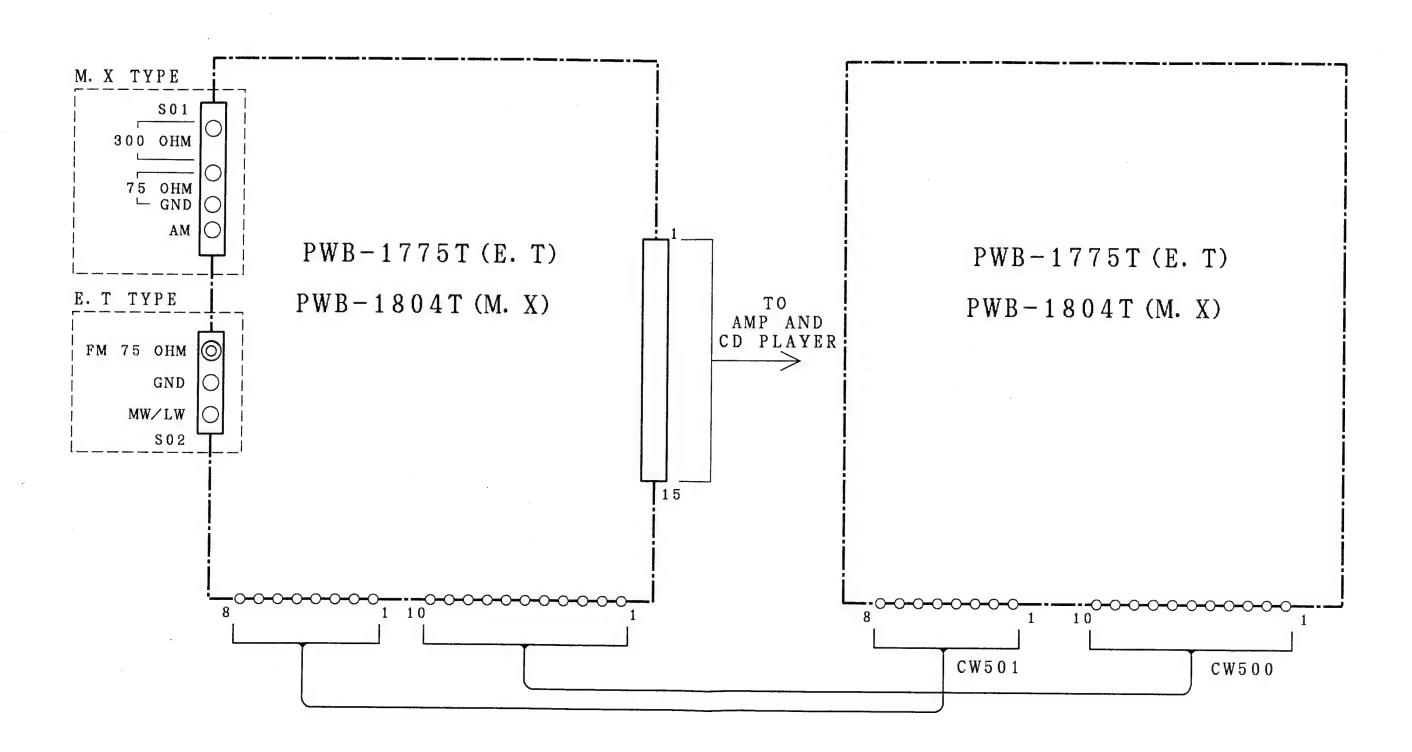
ABGLEICH

| NR. | GEGENSTAND | EINGANGS- EINSTELLUNG | AUSGANGS- EINSTELLUNG | TUNER- EINSTELLUNG | ABGLEICH- PUNKTE | ABGLEICHEN FUR | ABB. |
|-----|-------------------------|---|---|-----------------------------------|---------------------------|---|------|
| UKV | V-EMPFANGSABTE | ILUNG Wenn nic | cht anders angegel M MODE: I | ben, die einzelne FM MODE/AUTO | n Schalter wie | folgt einstellen: | |
| 1 | DETEKTOR | (A) 98,0MHz 1kHz, ±75kHz Hub 60dBμ(ANT-Eingang) | 98,0MHz Gleíchspannungs- MONO T1 0±30mV | | 0±30mV | (b) | |
| 2 | ABSTIMM PEGEL | (A) 98,0MHz 0 Hub 24dBμ(ANT-Eingang) | _ | 98,0MHz | VR2 | VR2 so einstellen, daß FL500 (TUNED) erlischt. Dann VR1 und Sptze an der Stelle einstellen, wo FL500 (TUNED) erlischt. | |
| 3 | FM-BANDBREITE | (A) 98,025MHz 97,975MHz 0 Hub 60dBμ(ANT-Eingang) | _ | 98 MHz | VR1 | FMSG 98,025MHz±3kHz FMSG 97,975MHz±3kHz wobei den FL500 (TUNED) anzeiger leuchtet wird. | |
| 4 | KLIRRFAKTOR (STEREO) | (C) 98,0MHz 1kHz, ±68,25kHz Hub Wähler: L oder R 60dBµ(ANT-Eingang) | (B) | 98,0MHz | L7 (Front end) | Minimal Klirrfaktor. (L oder R) | |
| 5 | TRENNUNG | (C) 98,0MHz 1kHz, ±68,25kHz Hub Wähler: L oder R 60dBµ(ANT-Eingang) | (B) | 98,0MHz | VR3 | Optimale Trennung. | |
| MW | -EMPFANGSABTEIL | UNG Die MW- | Rahmenantenne ar | ngebracht lassen | . BAND: AM | I(T-47) | |
| (1) | RF-ANGLEICH (1) | (D) 630kHz 400Hz, 30% mod | (B) | 630kHz | YEL SPULE von T4 L3 | Maximale Amplitude und Symmetrie der Oszilloskop- Anzeige. | |
| (2) | RF-ANGLEICH (2) | (D) 1440kHz 400Hz, 30% mod | (B) | 1440kHz | | Maximale Amplitude und Symmetrie der Oszilloskop- Anzeige. | |
| (3) | IF | (D) 990kHz 4kHz, 30% mod | (B) | 990kHz | T2 | Den 4 kHz Audioausgang am Punkt DIP einstellen. | |

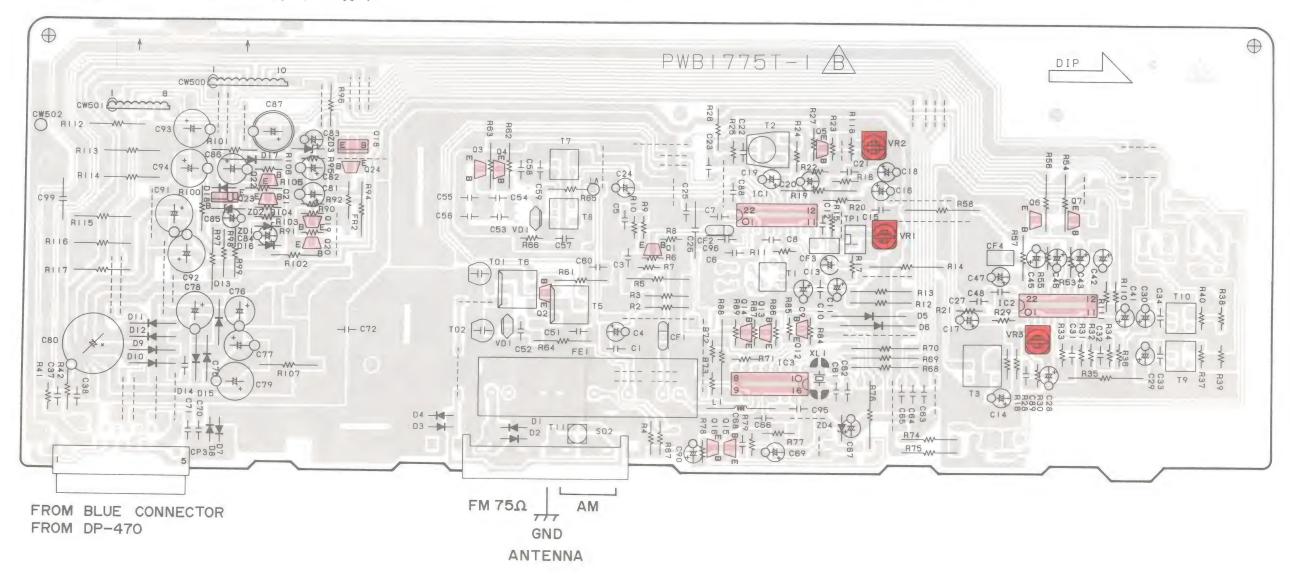
ABGLEICH

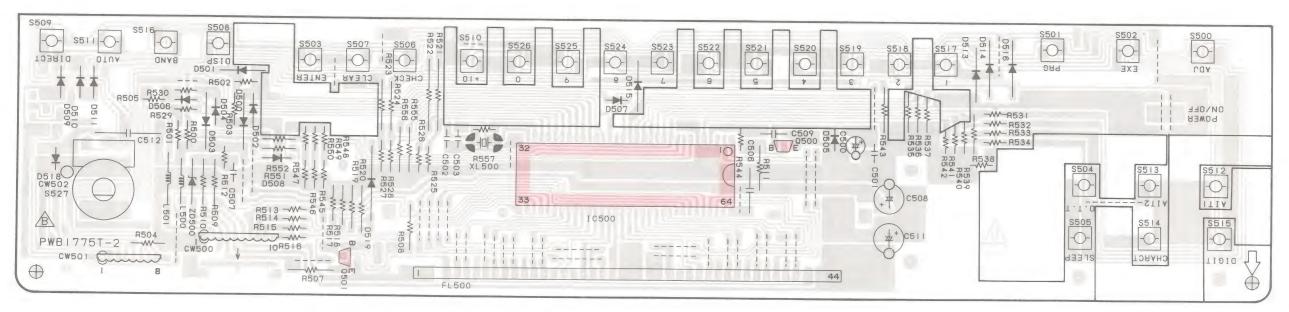
| NR. | GEGENSTAND | EINGANGS- EINSTELLUNG | AUSGANGS- EINSTELLUNG | TUNER- EINSTELLUNG | ABGLEICH- PUNKTE | ABGLEICHEN FUR | ABB. |
|------|--------------------|----------------------------------|---|-----------------------|---------------------|--|------|
| MW-I | EMPFANGSABTEIL | UNG(MW) Die MW- | Rahmenantenne ar | gebracht lassen. | BAND:MW | (T-47L) | |
| (1) | BANDKANTE (1) | _ | Einen Gleíchspannungs- messer zwischen R65 und GND anschileßen. | 531 kHz | Т8 | 1,1V±0,1V | (a) |
| (2) | BANDKANTE (2) | _ | Einen Gleichspannungs- messer zwischen R65 und GND anschileßen. | 1602 kHz | | 7,4V ^{+1,0} V prüfen. | (a) |
| | | Obigen Schritte (1) | und (2) zwei bis dre | imal wiederholen. | | | |
| (3) | RF-ANGLEICH (1) | (D) 630kHz 400Hz, 30% mod | (B) | 630kHz | Т6 | Maximale Amplitude und Symmetrie der Oszilloskop- Anzeige. | |
| (4) | RF-ANGLEICH (2) | (D) 1440kHz 400Hz, 30% mod | (B) | 1440kHz | TO2 | Maximale Amplitude und Symmetrie der Oszilloskop- Anzeige. | |
| (5) | IF | (D) 990kHz 4kHz, 30% mod | (B) | 990kHz | Т2 | Den 4 kHz Audioausgang am Punkt DIP einstellen. | |
| | | Obigen Schritte (3) | und (4) zwei bis dre | imal wiederholen. | | | |
| MW- | EMPFANGSABTEI | | Rahmenantenne ar | | . BAND:LW | T-47L) | |
| (6) | BANDKANTE (1) | _ | Einen Gleichspannungs- messer zwischen R65 und GND anschileßen. | 153 kHz | T7 | 1,5V±0,1V | (a) |
| (7) | BANDKANTE (2) | | _ | 281 kHz | _ | 5,5V±0,5V prüfen. | (a) |
| | | Obigen Schritte (6) | und (7) zwei bis dre | imal wiederholen. | | | |
| (8) | RF-ANGLEICH (1) | (D) 162kHz 400Hz, 30% mod | (B) | 162kHz | T5 | Maximale Amplitude und Symmetrie der Oszilloskop- Anzeige. | |
| (9) | RF-ANGLEICH (2) | (D) 270kHz 400Hz, 30% mod | (B) | 270kHz | TO1 | Maximale Amplitude und Symmetrie der Oszilloskop- Anzeige. | |
| | | Obigen Schritte (8) | und (9) zwei bis dre | imal wiederholen. | | | |

WIRING DIAGRAM



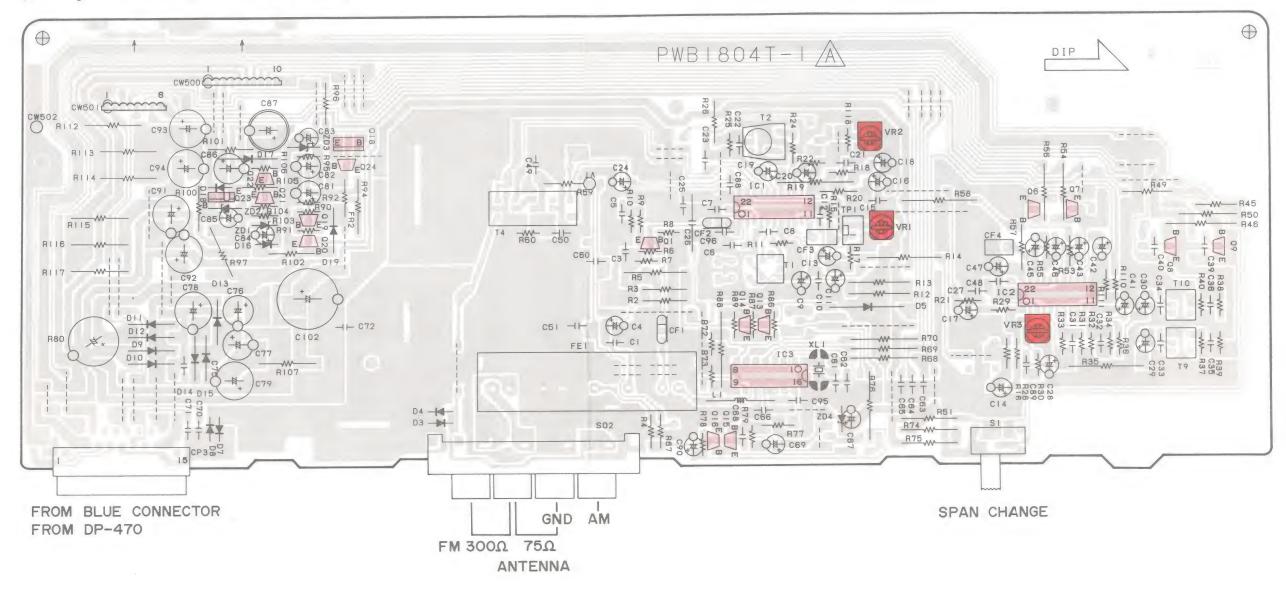
PC BOARD (Component side view) (E, T type)

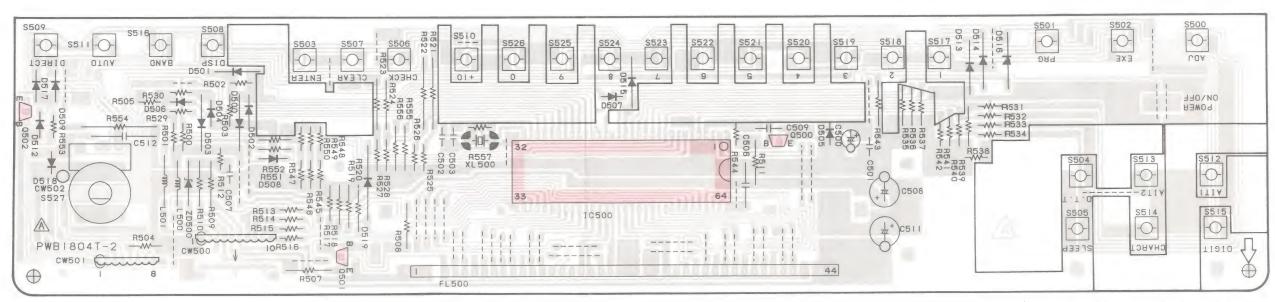


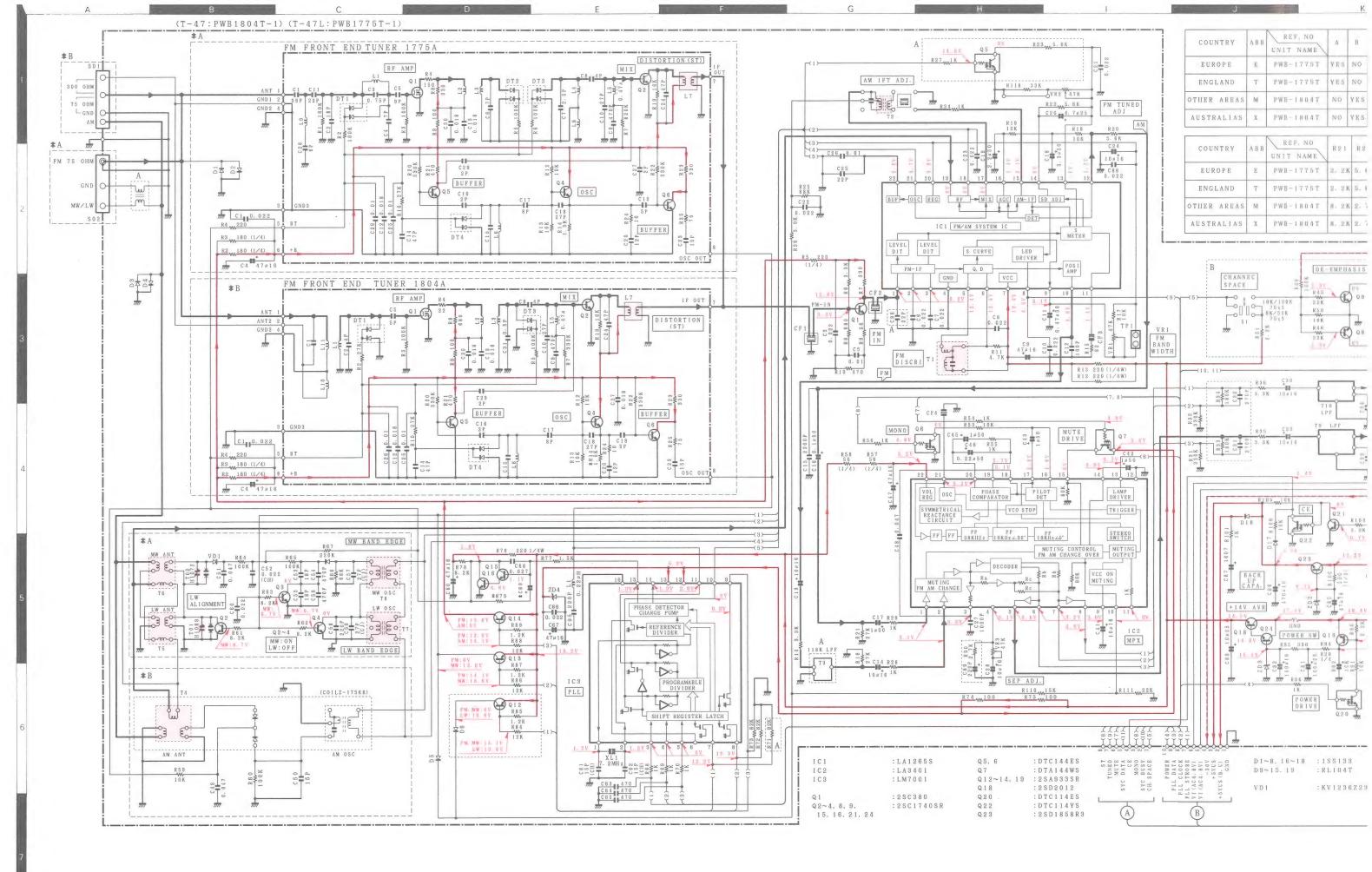


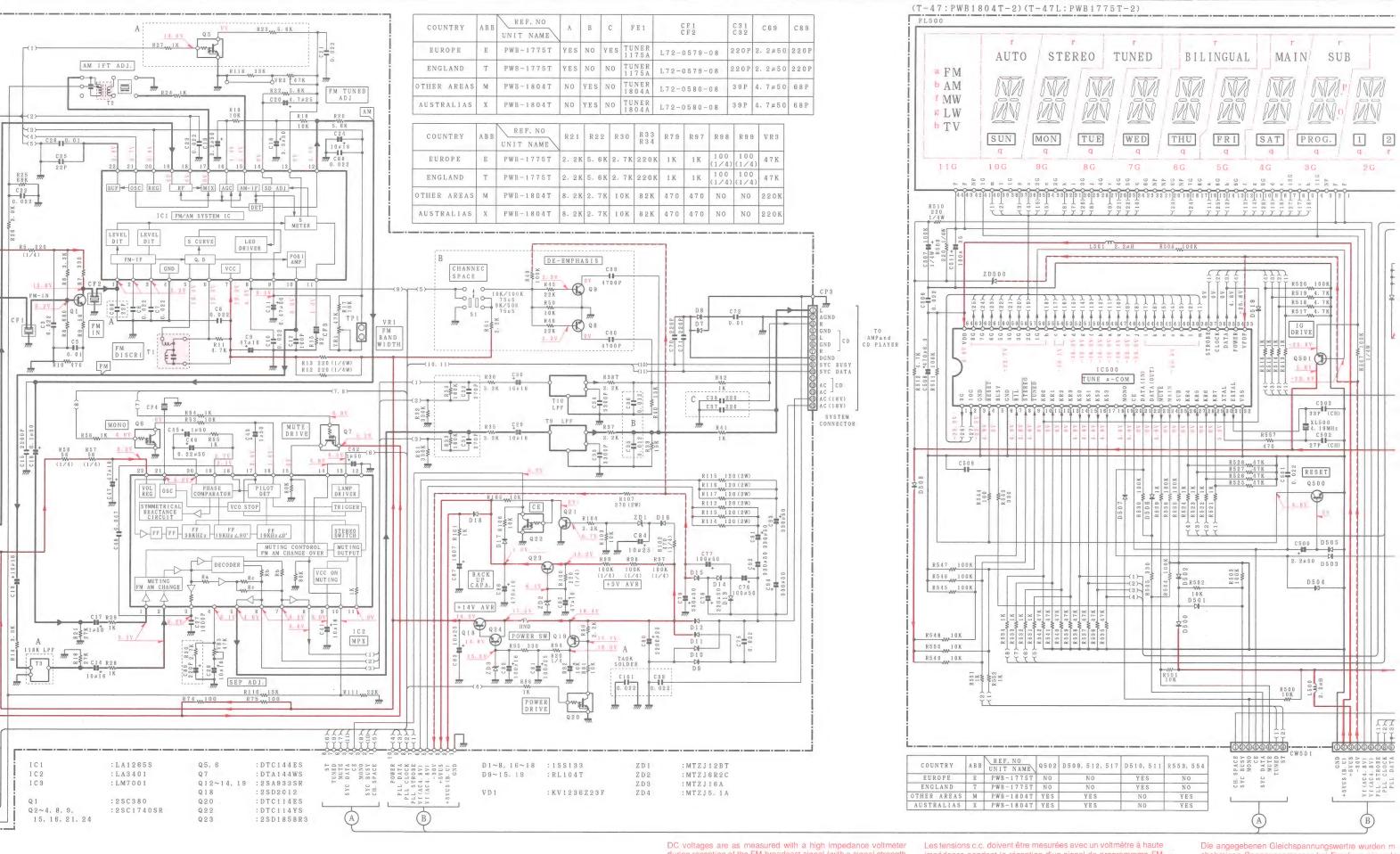
FRONT

PC BOARD (Component side view) (M, X type)







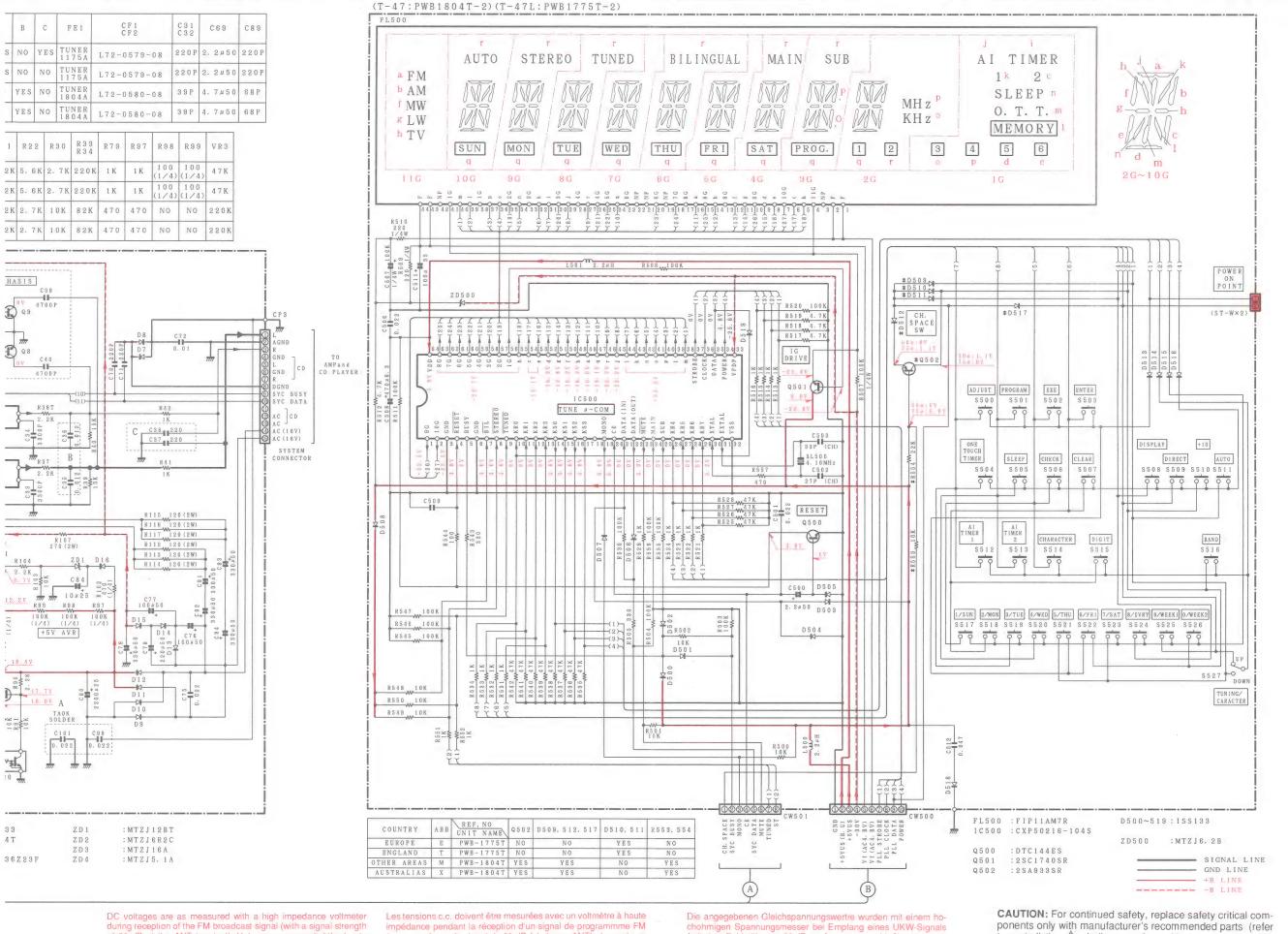


DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programme FM (avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de measure individuels.

Les valeurs entre parenthèses doivent être mesurées pendant la réception d'un signal de programme AM (avec une force de signal de 60 dB à la borne ANT).

chohmigen Spannungsmesser bei Empfang eines L (mit einer Feldstäke von 60 dB am Antennenanschluß Dabei schwanken die Meßwerte aufgrund von Unterschen einzelnen Instrumenten oder Geräten u. U. gerieingeklammerten Gleichspannungswerte wurden beines MW-Signals (mit einer Feldstäke von 60 dB am schluß) gemessen.



DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

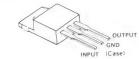
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programmme FM (avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de measure individuels.

appareils et aux instruments de measure individuels. Les valeurs entre parenthèses doivent être mesurées pendant la réception d'un signal de programme AM (avec une force de signal de 60 dB à la borne ANT). Die angegebenen Gleichspannungswertre wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstäke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die eingeklammerten Gleichspannungswerte wurden bei Empfang eines MW-Signals (mit einer Feldstäke von 60 dB am Antennenanschluß) gemessen.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

1SS133



DTC114ES DTC144ES



DTC114YS



2SD2012



LM7001

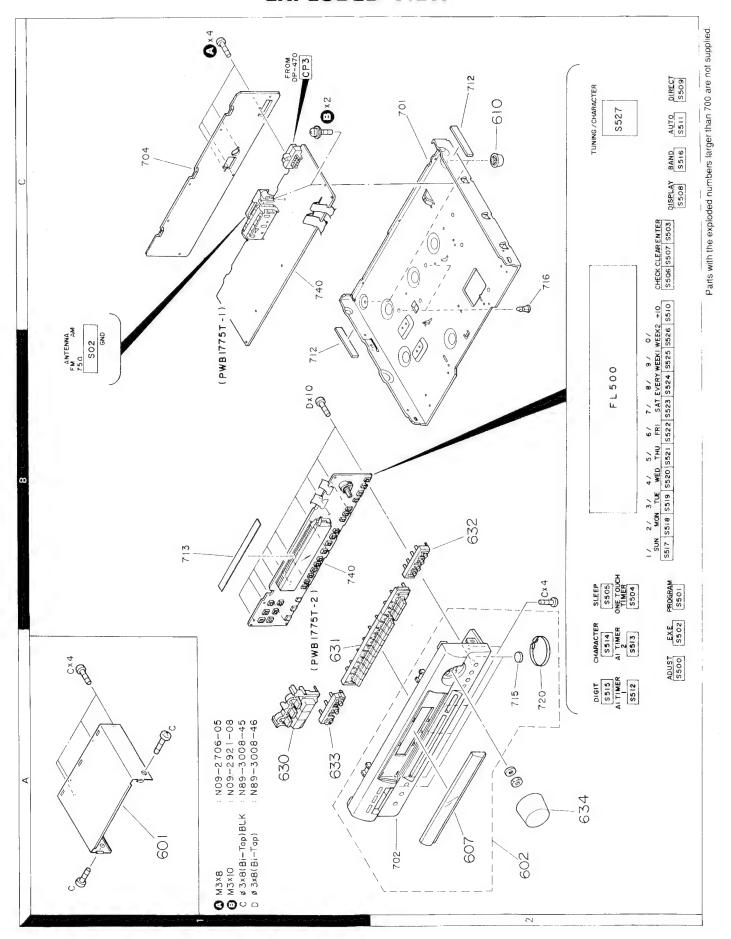


LA3401



T-47/L KENWOOD

EXPLODED VIEW



PARTS LIST

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

| Ref. No. | Address | | Parts No. | Description | Desti- Re |
|---|---------------------------------|------------|---|---|---------------|
| 参照番号 | 位 置 | Parts 新 | 部品番号 | 部品名/規格 | 仕 向備 |
| | | , | T-4 | 7/L (UNIT) | |
| 01 02 02 | 1 A 2 A 2 A | * * | A01-3125-08 A60-0556-08 A60-0557-08 | METALIC CABINET PANEL ASSY PANEL ASSY | ET XMI |
| 07 | 2A | * | SH1101580791 B46-0096-33 B46-0310-03 | FRONT GLASS WARRANTY CARD WARRANTY CARD | X ET |
| | | * * * * * | H50-0831-08 H50-0832-08 H50-1014-08 H10-5732-08 H10-5733-08 | ITEM CARTON CASE ITEM CARTON CASE ITEM CARTON CASE ITEM CARTON CASE POLYSTYRENE FOAMED FIXTURE L POLYSTYRENE FOAMED FIXTURE R | ET MI X |
| , | | * | H12-2186-08 H25-1513-08 | PACKING FIXTURE PROTECTION BAG | |
| 10 | 2C | * | SH1101230060 | FOOT REAR | |
| 530 531 532 533 534 | 1 A 1 A 2 B 1 A 2 A | * * * * | K29-5889-08 K29-5890-08 K29-5891-08 K29-5892-08 K29-5893-08 | KNOB TIMER KNOB 10 KEY KNOB BAND KNOB PROGRAM KNOB TUNING | |
| A B C O | 1C 1C 1A,2B 1B | | N09-2706-05 N09-2921-08 N89-3008-45 N89-3008-46 | TAPTITE SCREW (3X8) SCREW (3X10) BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW | |
| | | | | CTRICAL UNIT | |
| C1 C3 C4 C5 C6 ~8 | | | CK45FF1H223Z CK45FF1H223Z CE04KW1C470M CK45FF1H103Z CK45FF1H223Z | CERAMIC 0.022UF Z CERAMIC 0.022UF Z ELECTRO 47UF 16WV CERAMIC 0.010UF Z CERAMIC 0.022UF Z | |
| 09 010 011 012 013 ,14 | | | CE04KW1C470M CK45FF1H223Z CE04KW1HR47M CC45FSL1H101J CE04KW1C100M | ELECTRO 47UF 16WV CERAMIC 0.022UF Z ELECTRO 0.47UF 50WV CERAMIC 100PF J ELECTRO 10UF 16WV | |
| C15 C16 C16 C17 C18 | | | SH1125900145 CE04KW1HR22M CE04KW1HR33M CE04KW1H010M CE04KW1H3R3M | CERAMIC 2200PF K ELECTRO 0.22UF 50WV ELECTRO 0.33UF 50WV ELECTRO 1.0UF 50WV ELECTRO 3.3UF 50WV | XMI ET |
| C19 C20 C21 -23 C24 C25 | | | CE04KW1H2R2M CE04KW1E4R7M CK45FF1H223Z CE04KW1C100M CC45SL1H220J | ELECTRO 2.2UF 50WV ELECTRO 4.7UF 25WV CERAMIC 0.022UF Z ELECTRO 10UF 16WV CERAMIC 22PF J | |
| C26 C27 C28 -30 C31 ,32 C31 ,32 | | * | SH1015900044 CK45FB1E102K CE04KW1C100M CC45FSL1H221J CC45SL1H390J | CERAMIC 0.01UF J CERAMIC 1000PF K ELECTRO 10UF 16WV CERAMIC 220PF J CERAMIC 39PF J | ET XMI |
| C33 ,34 | | * | SH1125900164 | CERAMIC 3300PF J CERAMIC 0.012UF J | |

L:Scandinavia Y:PX(Far East, Hawaii) Y:AAFES(Europe)

K:USA T:England

P:Canada E:Europe M:Other Areas X:Australia

⚠ indicates safety critical components.

* New Parts

PARTS LIST

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| Ref. No. | Address | New Parts | | Description | Desti- Re- |
|---|---------------------------------|--------------|---|---|------------------------|
| 参照番号 | 位 置 | 新 | 部品番号 | 部品名/規格 | mation marks 仕 向 備考 |
| | | | T-4 | 7/L (UNIT) | 1 |
| 601 602 602 | 1 A 2 A 2 A | * * | A01-3125-08 A60-0556-08 A60-0557-08 | METALIC CABINET PANEL ASSY PANEL ASSY | ET XMI |
| 607 - - | 2A | * | SH1101580791 B46-0096-33 B46-0310-03 | FRONT GLASS WARRANTY CARD WARRANTY CARD | X |
| - | | * * * * | H50-0831-08 H50-0832-08 H50-1014-08 H10-5732-08 H10-5733-08 | ITEM CARTON CASE ITEM CARTON CASE ITEM CARTON CASE ITEM CARTON CASE POLYSTYRENE FOAMED FIXTURE L POLYSTYRENE FOAMED FIXTURE R | ET MI X |
| -, | | * | H12-2186-08 H25-1513-08 | PACKING FIXTURE PROTECTION BAG | |
| 610 | 2C | * | SH1101230060 | FOOT REAR | |
| 630 631 632 633 634 | 1 A 1 A 2 B 1 A 2 A | * * * * | K29-5889-08 K29-5890-08 K29-5891-08 K29-5892-08 K29-5893-08 | KNOB TIMER KNOB 10 KEY KNOB BAND KNOB PROGRAM KNOB TUNING | |
| A B C D | 1C 1C 1A,2B 1B | | N09-2706-05 N09-2921-08 N89-3008-45 N89-3008-46 | TAPTITE SCREW (3X8) SCREW (3X10) BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW | |
| | | | | TRICAL UNIT | |
| C1 C3 C4 C5 C6 -8 | | | CK45FF1H223Z CK45FF1H223Z CE04KW1C470M CK45FF1H103Z CK45FF1H223Z | CERAMIC 0.022UF Z CERAMIC 0.022UF Z ELECTRØ 47UF 16WV CERAMIC 0.010UF Z CERAMIC 0.022UF Z | |
| C9 C10 C11 C12 C13 ,14 | | | CE04KW1C470M CK45FF1H223Z CE04KW1HR47M CC45FSL1H101J CE04KW1C100M | ELECTRO 47UF 16WV CERAMIC 0.022UF Z ELECTRO 0.47UF 50WV CERAMIC 100PF J ELECTRO 10UF 16WV | |
| C15 C16 C16 C17 C18 | | | SH1125900145 CE04KW1HR22M CE04KW1HR33M CE04KW1H010M CE04KW1H3R3M | CERAMIC 2200PF K ELECTRO 0.22UF 50WV ELECTRO 0.33UF 50WV ELECTRO 1.0UF 50WV ELECTRO 3.3UF 50WV | XMI ET |
| C19 C20 C21 -23 C24 C25 | | | CE04KW1H2R2M CE04KW1E4R7M CK45FF1H223Z CE04KW1C100M CC45SL1H220J | ELECTRO 2.2UF 50WV ELECTRO 4.7UF 25WV CERAMIC 0.022UF Z ELECTRO 10UF 16WV CERAMIC 22PF J | |
| C26 C27 C28 -30 C31 ,32 C31 ,32 | | * | SH1015900044 CK45FB1E102K CE04KW1C100M CC45FSL1H221J CC45SL1H390J | CERAMIC 0.01UF J CERAMIC 1000PF K ELECTRØ 10UF 16WV CERAMIC 220PF J CERAMIC 39PF J | ET XMI |
| C33 ,34 C35 ,36 | | * | SH1125900164 SH1125900162 | CERAMIC 3300PF J CERAMIC 0.012UF J | XMI |

L:Scandinavia

K:USA

P:Canada

Y:PX(Far East, Hawaii) Y:AAFES(Europe)

T:England X: Australia

E:Europe M:Other Areas

⚠ indicates safety critical components.

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| Ref. No. | Address New | | Description | Desti- Re- |
|---|-------------|--|--|------------------------|
| 参照番号 | 位置 新 | 部品番号 | 部品名/規格 | nation marks 仕 向 備考 |
| C37 ,38 C39 ,40 C41 C42 ,43 C45 | | CC45SL1H221K SH1205900093 CE04KW1C100M CE04KW1H010M CE04KW1H010M | CERAMIC 220PF K CERAMIC 4700PF 25WV ELECTRO 10UF 16WV ELECTRO 1.0UF 50WV ELECTRO 1.0UF 50WV | ET |
| C46 C47 C48 C49 C50 | * | CE04KW1HR22M CE04KW1C470M SH1305900119 CK45FF1H473Z CC45RH1H150J | ELECTRO 0.22UF 50WV ELECTRO 47UF 16WV CERAMIC 0.047UF M CERAMIC 0.047UF Z CERAMIC 15PF J | XMI |
| C51 C52 C53 C54 C55 | | CK45FF1H473Z CK45FF1H223Z CC45CH1H180J CQ09FS1H471J CC45CH1H180J | CERAMIC 0.047UF Z CERAMIC 0.022UF Z CERAMIC 18PF J POLYSTY 470PF J CERAMIC 18PF J | ET ET ET ET |
| C56 C57 C58 C59 C60 | | CQ09FS1H681J CC45UJ1H270J CQ09FS1H221J CC45UJ1H270J CK45FF1H223Z | POLYSTY 680PF J CERAMIC 27PF J POLYSTY 220PF J CERAMIC 27PF J CERAMIC 0.022UF Z | ET ET ET ET |
| C61 ,62 C63 -65 C66 C67 C68 | | CC45CH1H150J CC45SL1H471K CK45FF1H223Z CE04KW1C470M SH1205900091 | CERAMIC 15PF J CERAMIC 470PF K CERAMIC 0.022UF Z ELECTRO 47UF 16WV CERAMIC 0.027UF J | |
| C69 C69 C70 ,71 C72 C75 | | CE04KW1H2R2M CE04KW1H4R7M CC45SL1H221K CK45FF1H103Z CK45FF1H223Z | ELECTRO 2.2UF 50WV ELECTRO 4.7UF 50WV CERAMIC 220PF K CERAMIC 0.010UF Z CERAMIC 0.022UF Z | ET XMI |
| C76 ,77 C78 C79 C80 C80 | * | CE04KW1H101M SH1425900118 SH1305900815 CE04KW1E102M CE04KW1E222M | ELECTRO 100UF 50WV ELECTRO 220UF 50WV ELECTRO 330UF 50WV ELECTRO 1000UF 25WV ELECTRO 2200UF 25WV | XMI ET |
| C81 C82 C83 ,84 C85 C86 | | CE04KW1E101M CE04KW1C101M CE04KW1H100M CE04KW1C470M CE04KW1A471M | ELECTRO 100UF 25WV ELECTRO 100UF 16WV ELECTRO 10UF 50WV ELECTRO 47UF 16WV ELECTRO 470UF 10WV | |
| C87 C88 C89 C89 C90 | | C90-1827-05 CK45FF1H223Z CC45FSL1H221J CC45SL1H680J CE04KW1C470M | BACKUP 0.047F 5.5WV CERAMIC 0.022UF Z CERAMIC 220PF J CERAMIC 68PF J ELECTRO 47UF 16WV | ET XMI |
| C91 -94 C95 C96 C99 C101 | * | SH1305900815 CC45SL1H221K CC45SL1H220J SH1305900596 CK45FF1H223Z | ELECTRO 330UF 50WV CERAMIC 220PF K CERAMIC 22PF J CERAMIC 0.022UF 25WV CERAMIC 0.022UF Z | ET ET ET |
| C102 C500 C501 C502 C503 | | CE04KW1E222M CE04KW1H2R2M CK45FF1H223Z CC45CH1H270J CC45CH1H330J | ELECTRO 2200UF 25WV ELECTRO 2.2UF 50WV CERAMIC 0.022UF Z CERAMIC 27PF J CERAMIC 33PF J | IMX |

L:Scandinavia Y:PX(Far East, Hawaii)

K:USA

P:Canada T:England

Y:AAFES(Europe)

E:Europe X:Australia M:Other Areas

PARTS LIST

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| Ref. No. | Address | New | | Description | Desti- Re- |
|--|---------|-------------|--|---|------------------------|
| 参照番号 | 位 置 | 新 | 部品番号 | 部品名/規格 | nation marks 仕 向 備考 |
| C506 C507 C508 C509 C511 | | * * | SH1305900745 SH1255940009 CE04KW0J471M SH1305900721 CE04KW1V101M | CERAMIC 0.1UF J NP ELECT 10UF 25WV ELECTRO 470UF 6.3WV CERAMIC 0.1UF Z ELECTRO 100UF 35WV | |
| C512 T01 T02 | | * | C90-3506-08 C05-0224-08 C05-0225-08 | CERAMIC 0.047UF Z TRIM CAP LW RF ADJ TRIM CAP MW RF ADJ | ET ET |
| CP3 S01 S02 | | * | E58-0007-08 E20-0476-05 E20-0321-05 | FLAT CABLE CONNECTOR POWER TERMINAL BOARD ANTENNA TERMINAL BOARD ANTENNA | XMI ET |
| CF1 ,2 CF1 ,2 CF3 CF4 L1 | | * | L72-0579-08 L72-0580-08 L72-0096-05 L78-0286-05 L40-2281-17 | CERAMIC FILTER CERAMIC FILTER AM OSC RESONATOR 456kHz SMALL FIXED INDUCTOR (0.22UH) | ET XMI |
| L500,501 T1 T2 T3 T4 | | * * * | L40-2291-17 L30-0908-08 L30-0909-08 L39-1326-08 L39-1327-08 | SMALL FIXED INDUCTOR (2.2UH) FM IFT AM IFT LOW PASS FILTER AM OSC | ET XMI |
| T5 T6 T7 T8 T9 ,10 | | * * * * * * | L31-0611-08 L31-0612-08 L32-0564-08 L32-0565-08 L35-0071-08 | RF COIL RF COIL OSCILLATING COIL OSCILLATING COIL MPX FILTER | ET ET ET |
| T11 XL1 XL500 | | * | L19-0074-08 L77-1122-05 L77-1175-05 | BALUN COIL CRYSTAL RESONATOR 7.20MHz CRYSTAL RESONATOR 4.19MHz | ET |
| A FR2 R74 ,75 R97 R107 R112-117 | | * * * | SH1105810605 RD14BB2H101J SH1105810673 SH1105810664 SH1105810663 | FUSE-R 6.8 J 1/4W RD 100 J 1/2W RS 330 J 1W RS 270 J 2W RS 120 J 2W | XMI ET |
| R112-117 VR1 ,2 VR3 VR3 | | * | SH1105810677 R12-3688-05 R12-3688-05 R12-5652-05 | RS 150 J 2W TRIM POT 47K B-WIDTH,T-LEVEL TRIM POT 47K SEPARATION TRIM POT 220K SEPARATION | XMI ET XMI |
| S1 S500-526 S527 | | * * * | S60-0025-08 S70-0024-08 S60-0026-08 | SLIDE SWITCH CH-SPAN TACT SWITCH KEY BOARD ROTARY SWITCH TUNING | XMI |
| D1 ,2 D3 -8 D9 -15 D16 -18 D19 | | * | 1SS133 1SS133 RL104T 1SS133 RL104T | DIODE DIODE DIODE DIODE | ET |
| D500-509 D510,511 D512 D513-516 D517 | | | 1SS133 1SS133 1SS133 1SS133 1SS133 | DIQDE DIQDE DIQDE DIQDE | ET XMI |
| D518,519 FL500 | | | 1SS133 FIP11AM7R | DIODE INDICATOR TUBE | |

L:ScandinaviaK:USAP:CanadaY:PX(Far East, Hawaii)T:EnglandE:EuropeY:AAFES(Europe)X:AustraliaM:Other Areas

PARTS LIST

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| Ref. No. | Address | New | Parts No. | Description | nation | Re- marks |
|---|---------|-----|---|--|-----------------|--------------|
| 参照番号 | 位 置 | 新 | 部品番号 | 部品名/規格 | 仕 向 | 備考 |
| IC1 IC2 IC3 IC500 Q1 | | * | LA1265S LA3401 LM7001 IX2201 2SC3800 | IC(AM/FM TUNER) IC(FM MPX) IC(PLL FREQUENCY SYNTHESIZER) IC(MICORPROCESSOR) TRANSISTOR | | |
| Q2 -4 Q5 Q6 Q7 Q8 ,9 | | | 2SC1740SR DTC144ES DTC144ES DTA144WS 2SC1740SR | TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR | ET ET XMI | |
| Q12 Q13 ,14 Q15 ,16 Q18 Q19 | | | 2SA933SR 2SA933SR 2SC1740SR 2SD2012 2SA933SR | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | ET | |
| 920 921 922 923 924 | | | DTC114ES 2SC1740SR DTC114YS 2SD1858R3 2SC1740SR | DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR | | |
| Q500 Q501 Q502 VD1 ZD1 | | * | DTC144ES 2SC1740SR 2SA933SR KV1236Z23F MTZJ12BT | DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR VARI-CAP DIODE ZENER DIODE | XMI ET | |
| ZD2 ZD3 ZD4 ZD500 | | * | MTZJ6R2C MTZJ16A MTZJ5.1A MTZJ6.2B | ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE | | |
| FE1 FE1 | | * | W02-1183-08 W02-1184-08 | TUNER MODULR TUNER MODULE | ET MX | |
| | | | | | | |
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| | | | | | | |
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| : | | | | | | |

X:Australia

SPECIFICATIONS

T-471

| T-47 |
|--|
| FM tuner section |
| Tuning frequency range87.5MHz~108MHz |
| Tuning frequency range 87.5MHz~108MHz Antenna impedance 300Ω balanced/ |
| 75Ω unbalanced |
| Sensitivity (IHF)10,8dBf (0.95μV at 75Ω) |
| 50dB quieting sensitivity |
| MONO22.1dBf (3.5μV at 75Ω) |
| STEREO44.3dBf (45μV at 75Ω) |
| Total harmonic distortion at 1,000Hz |
| MONO0.4% |
| STEREO |
| Signal to noise ratio at 65dBf (IHF) |
| MONO76dB |
| STEREO68dB |
| Selectivity (IHF ±400kHz)50dB |
| Stereo separation (IHF at 1kHz) |
| Frequency response30Hz~15kHz, +0.5dB, -3.0dB |
| AM Tuner section |
| Tuning frequency range |
| 9kHz step |
| 10kHz step 530kHz~1,610kHz |
| Usable sensitivity13μV/(500μV/m) |
| Total harmonic distortion0.6% |
| Signal to noise ratio50dB |
| |
| General |
| DimensionsW: 360 mm |
| H : 94 mm |
| D : 326 mm |
| Weight3.0kg |

| 1-4/L |
|---|
| Sezione sintonizzatore FM |
| Gamma sintonizzazione frequenze 87,5MHz~108MHz |
| Impedenza antenna75 Ω non bilanciata |
| Sensibilità (DIN) |
| MONO |
| STEREO25µV |
| Distorsione armonica totale |
| (a 1.000Hz, 65,2dBf ingresso, DIN) |
| MONO |
| STEREO |
| Rapporto S/R |
| (DIN pesato ad 1kHz, 65,2dBf di ingresso) |
| MONO70dB |
| STEREO |
| Sensibilità (DIN ±300kHz) 64dB |
| Separazione stereo (DIN a 1kHz) |
| Risposta in frequenza30Hz~15kHz, +0,5dB, -3,0dB |
| Sezione sintonizzatore MW |
| Campo di frequenza |
| Sensibilità utilizzabile |
| Distorsione armonica totale |
| |
| Rapporto S/R 50dB |
| Sezione sintonizzatore LW |
| Campo di frequenza |
| Campo di requenza153KHZ~281KHZ |
| Sensibilità utilizzabile |
| Distorsione armonica totale |
| Rapporto S/R |
| Generalità |
| Dimensioni L : 360 mm |
| |
| A: 94 mm |
| P: 326 mm |
| Peso (netto)3,0kg |

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

KENWOOD poursuit une politique de progrès constants en ce qui concerne le développe-

Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

KENWOOD strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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